



## SEQUENCE LISTING

<110> Morgan, Bruce A.

<120> REGULATION OF NEURAL DEVELOPMENT BY  
DAEDALOS

<130> 10287-044001

<140> 10/037,667

<141> 2001-10-25

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<151> 2000-10-25

<160> 13

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 537

<212> PRT

<213> Mus musculus

<400> 1

Met Glu Ser Leu Phe Cys Glu Ser Ser Gly Asp Ser Ser Leu Glu Lys  
1 5 10 15  
Glu Phe Leu Gly Ala Pro Val Gly Pro Ser Val Ser Thr Pro Asn Ser  
20 25 30  
Gln His Ser Ser Pro Ser Arg Ser Leu Ser Ala Asn Ser Ile Lys Val  
35 40 45  
Glu Met Tyr Ser Asp Glu Glu Ser Ser Arg Leu Leu Gly Pro Asp Glu  
50 55 60  
Arg Leu Leu Asp Lys Asp Asp Ser Val Ile Val Glu Asp Ser Leu Ser  
65 70 75 80  
Glu Pro Leu Gly Tyr Cys Asp Gly Ser Gly Pro Glu Pro His Ser Pro  
85 90 95  
Gly Gly Ile Arg Leu Pro Asn Gly Lys Leu Lys Cys Asp Val Cys Gly  
100 105 110  
Met Val Cys Ile Gly Pro Asn Val Leu Met Val His Lys Arg Ser His  
115 120 125  
Thr Gly Glu Arg Pro Phe His Cys Asn Gln Cys Gly Ala Ser Phe Thr  
130 135 140  
Gln Lys Gly Asn Leu Leu Arg His Ile Lys Leu His Ser Gly Glu Lys  
145 150 155 160  
Pro Phe Lys Cys Pro Phe Cys Asn Tyr Ala Cys Arg Arg Arg Asp Ala  
165 170 175  
Leu Thr Gly His Leu Arg Thr His Ser Val Ser Ser Pro Thr Val Gly  
180 185 190  
Lys Pro Tyr Lys Cys Asn Tyr Cys Gly Arg Ser Tyr Lys Gln Gln Ser  
195 200 205  
Thr Leu Glu Glu His Lys Glu Arg Cys His Asn Tyr Leu Gln Ser Leu  
210 215 220  
Ser Thr Asp Ala Gln Ala Leu Thr Gly Gln Pro Gly Asp Glu Ile Arg  
225 230 235 240  
Asp Leu Glu Met Val Pro Asp Ser Met Leu His Pro Ser Thr Glu Arg

245	250	255
Pro Thr Phe Ile Asp Arg Leu Ala Asn Ser	Leu Thr Lys Arg Lys Arg	
260	265	270
Ser Thr Pro Gln Lys Phe Val Gly Glu Lys Gln Met	Arg Phe Ser Leu	
275	280	285
Ser Asp Leu Pro Tyr Asp Val Asn Ala Ser	Gly Gly Tyr Glu Lys Asp	
290	295	300
Val Glu Leu Val Ala His His Gly Leu Glu	Pro Gly Phe Gly Ser	
305	310	315
Leu Ala Phe Val Gly Thr Glu His Leu Arg	Pro Leu Arg Leu Pro Pro	
325	330	335
Thr Asn Cys Ile Ser Glu Leu Thr Pro Val Ile Ser	Ser Val Tyr Thr	
340	345	350
Gln Met Gln Pro Ile Pro Ser Arg Leu Glu Leu	Pro Gly Ser Arg Glu	
355	360	365
Ala Gly Glu Gly Pro Glu Asp Leu Gly Asp	Gly Pro Leu Leu Tyr	
370	375	380
Arg Ala Arg Gly Ser Leu Thr Asp Pro Gly	Ala Ser Pro Ser Asn Gly	
385	390	395
Cys Gln Asp Ser Thr Asp Thr Glu Ser Asn His	Glu Asp Arg Ile Gly	
405	410	415
Gly Val Val Ser Leu Pro Gln Gly	Pro Pro Pro Gln Pro Pro Pro Thr	
420	425	430
Ile Val Val Gly Arg His Ser Pro Ala Tyr	Ala Lys Glu Asp Pro Lys	
435	440	445
Pro Gln Glu Gly Leu Leu Arg Gly Thr Pro Gly	Pro Ser Lys Glu Val	
450	455	460
Leu Arg Val Val Gly Glu Ser Gly Glu Pro Val	Lys Ala Phe Lys Cys	
465	470	475
Glu His Cys Arg Ile Leu Phe Leu Asp His Val	Met Phe Thr Ile His	
485	490	495
Met Gly Cys His Gly Phe Arg Asp Pro Phe Glu	Cys Asn Ile Cys Gly	
500	505	510
Tyr His Ser Gln Asp Arg Tyr Glu Phe Ser Ser	His Ile Val Arg Gly	
515	520	525
Glu His Lys Val Gly Ser Cys Arg Ile		
530	535	

<210> 2  
<211> 532  
<212> PRT  
<213> Mus musculus

<400> 2  
Met His Cys Thr Leu Thr Met Glu Thr Asp Ala Ile Asp Gly Tyr Ile  
1 5 10 15  
Thr Cys Asp Asn Glu Leu Ser Pro Glu Gly Glu His Ala Asn Met Ala  
20 25 30  
Ile Asp Leu Thr Ser Ser Thr Pro Asn Gly Gln Gln Ala Ser Pro Ser  
35 40 45  
His Met Thr Ser Thr Asn Ser Val Lys Leu Glu Met Gln Ser Asp Glu  
50 55 60  
Glu Cys Asp Arg Gln Pro Leu Ser Arg Glu Asp Glu Ile Arg Gly His  
65 70 75 80  
Asp Glu Gly Ser Ser Leu Glu Glu Ala Leu Ile Glu Ser Ser Glu Val  
85 90 95  
Ala Asp Asn Arg Lys Val Gln Asp Leu Gln Gly Glu Arg Gly Ile Arg

100	105	110
Leu Pro Asn Gly Lys Leu Lys Cys Asp Val Cys Gly Met Val Cys Ile		
115	120	125
Gly Pro Asn Val Leu Met Val His Lys Arg Ser His Thr Gly Glu Arg		
130	135	140
Pro Phe His Cys Asn Gln Cys Gly Arg Ser Phe Thr Gln Lys Gly Asn		
145	150	155
Leu Leu Arg His Ile Lys Leu His Ser Gly Glu Lys Pro Phe Lys Cys		
165	170	175
Pro Phe Cys Ser Tyr Ala Cys Arg Arg Asp Ala Leu Thr Gly His		
180	185	190
Leu Arg Thr His Ser Val Gly Lys Pro His Lys Cys Asn Tyr Cys Gly		
195	200	205
Arg Ser Tyr Lys Gln Arg Thr Ser Leu Glu Glu His Lys Glu Arg Cys		
210	215	220
His Asn Tyr Leu Gln Asn Val Ser Met Glu Ala Ala Gly Gln Val Met		
225	230	235
Ser His His Val Pro Pro Met Glu Asp Cys Lys Glu Gln Glu Pro Ile		
245	250	255
Met Asp Asn Asn Ile Ser Leu Val Ala Phe Glu Arg Pro Ala Val Ile		
260	265	270
Glu Lys Leu Thr Ala Asn Met Gly Lys Arg Lys Ser Ser Thr Pro Gln		
275	280	285
Lys Phe Val Gly Glu Lys Leu Met Arg Phe Ser Tyr Pro Asp Ile His		
290	295	300
Phe His Met Asn Leu Thr Tyr Glu Lys Glu Ala Glu Leu Met Gln Ser		
305	310	315
His Met Met Asp Gln Ala Ile Asn Asn Ala Ile Thr Tyr Leu Gly Ala		
325	330	335
Glu Ala Leu His Pro Leu Met Gln His Ala Pro Ser Thr Ile Ala Glu		
340	345	350
Val Ala Pro Val Ile Ser Ser Ala Tyr Ser Gln Val Tyr His Pro Asn		
355	360	365
Arg Ile Glu Arg Pro Ile Ser Arg Glu Thr Ser Asp Ser His Glu Asn		
370	375	380
Asn Met Asp Gly Pro Ile Ser Leu Ile Arg Pro Lys Ser Arg Pro Gln		
385	390	395
Glu Arg Glu Ala Ser Pro Ser Asn Ser Cys Leu Asp Ser Thr Asp Ser		
405	410	415
Glu Ser Ser His Asp Asp Arg Gln Ser Tyr Gln Gly Asn Pro Ala Leu		
420	425	430
Asn Pro Lys Arg Lys Gln Ser Pro Ala Tyr Met Lys Glu Asp Val Lys		
435	440	445
Ala Leu Asp Ala Thr Lys Ala Pro Lys Gly Ser Leu Lys Asp Ile Tyr		
450	455	460
Lys Val Phe Asn Gly Glu Gly Glu Gln Ile Arg Ala Phe Lys Cys Glu		
465	470	475
His Cys Arg Val Leu Phe Leu Asp His Val Met Tyr Thr Ile His Met		
485	490	495
Gly Cys His Gly Tyr Arg Asp Pro Leu Glu Cys Asn Ile Cys Gly Tyr		
500	505	510
Arg Ser Gln Asp Arg Tyr Glu Phe Ser Ser His Ile Val Gly Gly Gln		
515	520	525
His Thr Phe His		
530		

<211> 507  
<212> PRT  
<213> Mus musculus

<400> 3  
Met Glu Asp Ile Gln Pro Thr Val Glu Leu Lys Ser Thr Glu Glu Gln  
1 5 10 15  
Pro Leu Pro Thr Glu Ser Pro Asp Ala Leu Asn Asp Tyr Ser Leu Pro  
20 25 30  
Lys Pro His Glu Ile Glu Asn Val Asp Ser Arg Glu Ala Pro Ala Asn  
35 40 45  
Glu Asp Glu Asp Ala Gly Glu Asp Ser Met Lys Val Lys Asp Glu Tyr  
50 55 60  
Ser Asp Arg Asp Glu Asn Ile Met Lys Pro Glu Pro Met Gly Asp Ala  
65 70 75 80  
Glu Glu Ser Glu Met Pro Tyr Ser Tyr Ala Arg Glu Tyr Ser Asp Tyr  
85 90 95  
Glu Ser Ile Lys Leu Glu Arg His Val Pro Tyr Asp Asn Ser Arg Pro  
100 105 110  
Thr Ser Gly Lys Met Met Cys Asp Val Cys Gly Leu Ser Cys Ile Ser  
115 120 125  
Phe Asn Val Leu Met Val His Lys Arg Ser His Thr Gly Glu Arg Pro  
130 135 140  
Phe Gln Cys Asn Gln Cys Gly Ala Ser Phe Thr Gln Lys Gly Asn Leu  
145 150 155 160  
Leu Arg His Ile Lys Leu His Thr Gly Glu Lys Pro Phe Lys Cys His  
165 170 175  
Leu Cys Asn Tyr Ala Cys Gln Arg Arg Asp Ala Leu Thr Gly His Leu  
180 185 190  
Arg Thr His Ser Val Glu Lys Pro Tyr Lys Cys Glu Phe Cys Gly Arg  
195 200 205  
Ser Tyr Lys Gln Arg Ser Ser Leu Glu Glu His Lys Glu Arg Cys Arg  
210 215 220  
Ala Phe Leu Gln Asn Pro Asp Leu Gly Asp Ala Ala Ser Val Glu Ala  
225 230 235 240  
Arg His Ile Lys Ala Glu Met Gly Ser Glu Arg Ala Leu Val Leu Asp  
245 250 255  
Arg Leu Ala Ser Asn Val Ala Lys Arg Lys Ser Ser Met Pro Gln Lys  
260 265 270  
Phe Ile Gly Glu Lys Arg His Cys Phe Asp Ala Asn Tyr Asn Pro Gly  
275 280 285  
Tyr Met Tyr Glu Lys Glu Asn Glu Met Met Gln Thr Arg Met Met Asp  
290 295 300  
Gln Ala Ile Asn Asn Ala Ile Ser Tyr Leu Gly Ala Glu Ala Phe Arg  
305 310 315 320  
Pro Leu Val Gln Thr Pro Pro Ala Pro Thr Ser Glu Met Val Pro Val  
325 330 335  
Ile Ser Ser Val Tyr Pro Ile Ala Leu Thr Arg Ala Asp Met Pro Met  
340 345 350  
Gly Ala Pro Gln Glu Met Glu Lys Lys Arg Ile Leu Leu Pro Glu Lys  
355 360 365  
Ile Leu Pro Ser Glu Arg Gly Leu Ser Pro Asn Asn Ser Ala Gln Asp  
370 375 380  
Ser Thr Asp Thr Asp Ser Asn His Glu Asp Arg Gln His Leu Tyr Gln  
385 390 395 400  
Gln Ser His Val Val Leu Pro Gln Ala Arg Asn Gly Met Pro Leu Leu  
405 410 415

Lys Glu Val Pro Arg Ser Phe Glu Leu Léu Lys Pro Pro Pro Ile Cys  
     420                          425                          430  
 Leu Arg Asp Ser Ile Lys Val Ile Asn Lys Glu Gly Glu Val Met Asp  
     435                          440                          445  
 Val Phe Arg Cys Asp His Cys His Val Leu Phe Leu Asp Tyr Val Met  
     450                          455                          460  
 Phe Thr Ile His Met Gly Cys His Gly Phe Arg Asp Pro Phe Glu Cys  
     465                          470                          475                          480  
 Asn Met Cys Gly Tyr Arg Ser His Asp Arg Tyr Glu Phe Ser Ser His  
     485                          490                          495  
 Ile Ala Arg Gly Glu His Arg Ala Met Leu Lys  
     500                          505

<210> 4  
 <211> 515  
 <212> PRT  
 <213> Mus musculus

<400> 4

Met	Asp	Val	Asp	Glu	Gly	Gln	Asp	Met	Ser	Gln	Val	Ser	Gly	Lys	Glu
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Ser	Pro	Pro	Val	Ser	Asp	Thr	Pro	Asp	Glu	Gly	Asp	Glu	Prò	Met	Pro
					20			25						30	
Val	Pro	Glu	Asp	Leu	Ser	Thr	Thr	Ser	Gly	Ala	Gln	Gln	Asn	Ser	Lys
		35				40							45		
Ser	Asp	Arg	Gly	Met	Ala	Ser	Asn	Val	Lys	Val	Glu	Thr	Gln	Ser	Asp
		50				55						60			
Glu	Glu	Asn	Gly	Arg	Ala	Cys	Glu	Met	Asn	Gly	Glu	Glu	Cys	Ala	Glu
		65				70				75			80		
Asp	Leu	Arg	Met	Leu	Asp	Ala	Ser	Gly	Glu	Lys	Met	Asn	Gly	Ser	His
			85				90						95		
Arg	Asp	Gln	Gly	Ser	Ser	Ala	Leu	Ser	Gly	Val	Gly	Gly	Ile	Arg	Leu
		100				105							110		
Pro	Asn	Gly	Lys	Leu	Lys	Cys	Asp	Ile	Cys	Gly	Ile	Val	Cys	Ile	Gly
			115				120						125		
Pro	Asn	Val	Leu	Met	Val	His	Lys	Arg	Ser	His	Thr	Gly	Glu	Arg	Pro
		130				135					140				
Phe	Gln	Cys	Asn	Gln	Cys	Gly	Ala	Ser	Phe	Thr	Gln	Lys	Gly	Asn	Leu
		145				150				155			160		
Leu	Arg	His	Ile	Lys	Leu	His	Ser	Gly	Glu	Lys	Pro	Phe	Lys	Cys	His
			165				170						175		
Leu	Cys	Asn	Tyr	Ala	Cys	Arg	Arg	Asp	Ala	Leu	Thr	Gly	His	Leu	
		180				185						190			
Arg	Thr	His	Ser	Val	Gly	Lys	Pro	His	Lys	Cys	Gly	Tyr	Cys	Gly	Arg
		195				200						205			
Ser	Tyr	Lys	Gln	Arg	Ser	Ser	Leu	Glu	Glu	His	Lys	Glu	Arg	Cys	His
		210				215					220				
Asn	Tyr	Leu	Glu	Ser	Met	Gly	Leu	Pro	Gly	Val	Cys	Pro	Val	Ile	Lys
		225				230				235			240		
Glu	Glu	Thr	Asn	His	Asn	Glu	Met	Ala	Glu	Asp	Leu	Cys	Lys	Ile	Gly
			245				250						255		
Ala	Glu	Arg	Ser	Leu	Val	Leu	Asp	Arg	Leu	Ala	Ser	Asn	Val	Ala	Lys
			260				265						270		
Arg	Lys	Ser	Ser	Met	Pro	Gln	Lys	Phe	Leu	Gly	Asp	Lys	Cys	Leu	Ser
		275				280						285			
Asp	Met	Pro	Tyr	Asp	Ser	Ala	Asn	Tyr	Glu	Lys	Glu	Asp	Met	Met	Thr
		290				295					300				

Ser His Val Met Asp Gln Ala Ile Asn Asn Ala Ile Asn Tyr Leu Gly  
 305 310 315 320  
 Ala Glu Ser Leu Arg Pro Leu Val Gln Thr Pro Pro Gly Ser Ser Glu  
 325 330 335  
 Val Val Pro Val Ile Ser Ser Met Tyr Gln Leu His Lys Pro Pro Ser  
 340 345 350  
 Asp Gly Pro Pro Arg Ser Asn His Ser Ala Gln Asp Ala Val Asp Asn  
 355 360 365  
 Leu Leu Leu Ser Lys Ala Lys Ser Val Ser Ser Glu Arg Glu Ala  
 370 375 380  
 Ser Pro Ser Asn Ser Cys Gln Asp Ser Thr Asp Thr Glu Ser Asn Ala  
 385 390 395 400  
 Glu Glu Gln Arg Ser Gly Leu Ile Tyr Leu Thr Asn His Ile Asn Pro  
 405 410 415  
 His Ala Arg Asn Gly Leu Ala Leu Lys Glu Glu Gln Arg Ala Tyr Glu  
 420 425 430  
 Val Leu Arg Ala Ala Ser Glu Asn Ser Gln Asp Ala Phe Arg Val Val  
 435 440 445  
 Ser Thr Ser Gly Glu Gln Leu Lys Val Tyr Lys Cys Glu His Cys Arg  
 450 455 460  
 Val Leu Phe Leu Asp His Val Met Tyr Thr Ile His Met Gly Cys His  
 465 470 475 480  
 Gly Phe Arg Asp Pro Phe Glu Cys Asn Met Cys Gly Tyr His Ser Gln  
 485 490 495  
 Asp Arg Tyr Glu Phe Ser Ser His Ile Thr Arg Gly Glu His Arg Tyr  
 500 505 510  
 His Leu Ser  
 515

<210> 5  
 <211> 498  
 <212> PRT  
 <213> Mus musculus

<400> 5  
 Met Ser Gly Ser Thr Phe Pro Thr Val Val Gly His Lys Leu Glu Ser  
 1 5 10 15  
 Ile Phe Tyr Ser Ser Thr Val Ala Ala Leu Asp Arg Pro Lys Ala Gly  
 20 25 30  
 Asp Ser Ser Leu Glu Lys Asp Phe Ser Asp Ala Leu Ile Gly Pro Thr  
 35 40 45  
 Val Ser Thr Pro Asn Ser Arg His Ser Ser Pro Ser Arg Ser Arg Ser  
 50 55 60  
 Ala Asn Ser Ile Lys Val Glu Met Tyr Gly Asp Asp Glu Ser Gly Arg  
 65 70 75 80  
 Leu Leu Ser His Glu Asp Arg Leu Ser Glu Lys Glu Asp Glu Ile Met  
 85 90 95  
 Gly Asp Asp Ser Leu Val Glu Pro Leu Gly Tyr Cys Asp Gly Pro Gly  
 100 105 110  
 Gln Asp Pro His Ser Pro Gly Ile Leu Leu Pro Asn Gly Lys Leu Lys  
 115 120 125  
 Cys Asp Ile Cys Gly Met Val Cys Ile Gly Pro Asn Val Leu Met Val  
 130 135 140  
 His Lys Arg Ser His Thr Gly Glu Arg Pro Phe His Cys Asn Gln Cys  
 145 150 155 160  
 Gly Ala Pro Phe Thr Gln Lys Gly Asn Leu Leu Arg His Ile Lys Leu  
 165 170 175

His Ser Gly Glu Lys Pro Phe Lys Cys Pro Phe Cys Asn Tyr Ala Cys  
     180                     185                     190  
 Arg Arg Arg Asp Ala Leu Ser Gly His Leu Arg Thr His Ala Val Gly  
     195                     200                     205  
 Lys Pro Tyr Lys Cys Asn Tyr Cys Gly Arg Ser Tyr Lys Gln Gln Asn  
     210                     215                     220  
 Thr Leu Glu Glu His Lys Glu Arg Cys His Asn Tyr Leu Gln Ser Leu  
     225                     230                     235                     240  
 Ser Asn Glu Ala Gln His Leu Pro Ala His Pro Gly Glu Trp Gly Pro  
     245                     250                     255  
 Gln Gly Gly Asn Cys Ile Cys Thr Arg Glu Lys Gln Met Arg Leu Ser  
     260                     265                     270  
 Leu Ala Asp Leu Pro Tyr Glu Met Asn Ser Ser Phe Glu Lys Asp Val  
     275                     280                     285  
 Glu Ile Val Ser His His Pro Leu Asp Thr Ala Tyr Gly Asn Ser Leu  
     290                     295                     300  
 Ala Phe Val Gly Gly Pro Met Arg Leu Pro Pro Thr Asn Cys Ile Ser  
     305                     310                     315                     320  
 Glu Ile Thr Pro Val Ile Ser Ser Val Tyr Thr Gln Leu Gln Pro Met  
     325                     330                     335  
 Gln Gly Arg Pro Asp Met Pro Gly Asn Arg Glu Ala Ala Glu Gly His  
     340                     345                     350  
 Glu Asp Ile Pro Asp Gly Thr Gln Ile His Tyr Arg Gly Arg Ser Glu  
     355                     360                     365  
 His Gly Ala Ser Pro Thr Asn Gly Cys Gln Asp Ser Asn Thr Asp Thr  
     370                     375                     380  
 Glu Ser Asn His Glu Glu Arg Gly Ser Gln Ala Thr Ser Ser Arg Gln  
     385                     390                     395                     400  
 Ser Ser Ala Tyr Ala Lys Glu Asp Gln Arg Pro Ser Asp Gly Gly Leu  
     405                     410                     415  
 Leu Leu Pro Ser Arg Ser Met Pro Gly Thr Ala Lys Glu Ser Leu Arg  
     420                     425                     430  
 Val Leu Gly Glu Asp Gly Val Gln Val Lys Val Phe Lys Cys Glu His  
     435                     440                     445  
 Cys Arg Val Leu Phe Leu Asp His Val Met Phe Thr Ile His Met Gly  
     450                     455                     460  
 Cys His Gly Glu Arg Asp Pro Phe Glu Cys Asn Ile Cys Gly Tyr His  
     465                     470                     475                     480  
 Cys Gln Asp Arg Tyr Glu Phe Ser Ser His Ile Val Arg Gly Glu His  
     485                     490                     495  
 Lys Val

<210> 6  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated primer

<221> misc\_feature  
 <222> 15, 18, 21  
 <223> n = inosine

<400> 6  
 tgyaaycart gyggngcnwc nttyac

<210> 7  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetically generated primer

<221> misc\_feature  
<222> 6, 15, 18  
<223> n = inosine

<400> 7  
tgrcanccca trtgnatngt rwacat 26

<210> 8  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetically generated primer

<400> 8  
agggacaaca tccagggcat cacc 24

<210> 9  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetically generated primer

<400> 9  
atccatggcg gtaacggtct tcct 24

<210> 10  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetically generated primer

<400> 10  
attctgtaac tacgcttgtc gtcg 24

<210> 11  
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<212> DNA  
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<223> Synthetically generated primer

<221> misc\_feature  
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<223> n = inosine  
  
<400> 11  
aacaaatngcc ataaggcagtg tcca

24

<210> 12  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
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<400> 12  
catattggta caggactcct atcc

24

*A1*  
*seq*  
<210> 13  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetically generated primer

<400> 13  
cttgaccctt atgggaagca ggaa

24